



# **Pathfinder: Role of Libraries in Supplying Research Data Management (RDM) Services to Support Faculty and Students**

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An open book with glowing yellow pages sits on a dark surface. From the pages, a stream of golden light and sparks flows upwards and to the left, forming a large, swirling, comet-like shape against a black background. The sparks are bright white and yellow, creating a magical, ethereal effect.

# Agenda

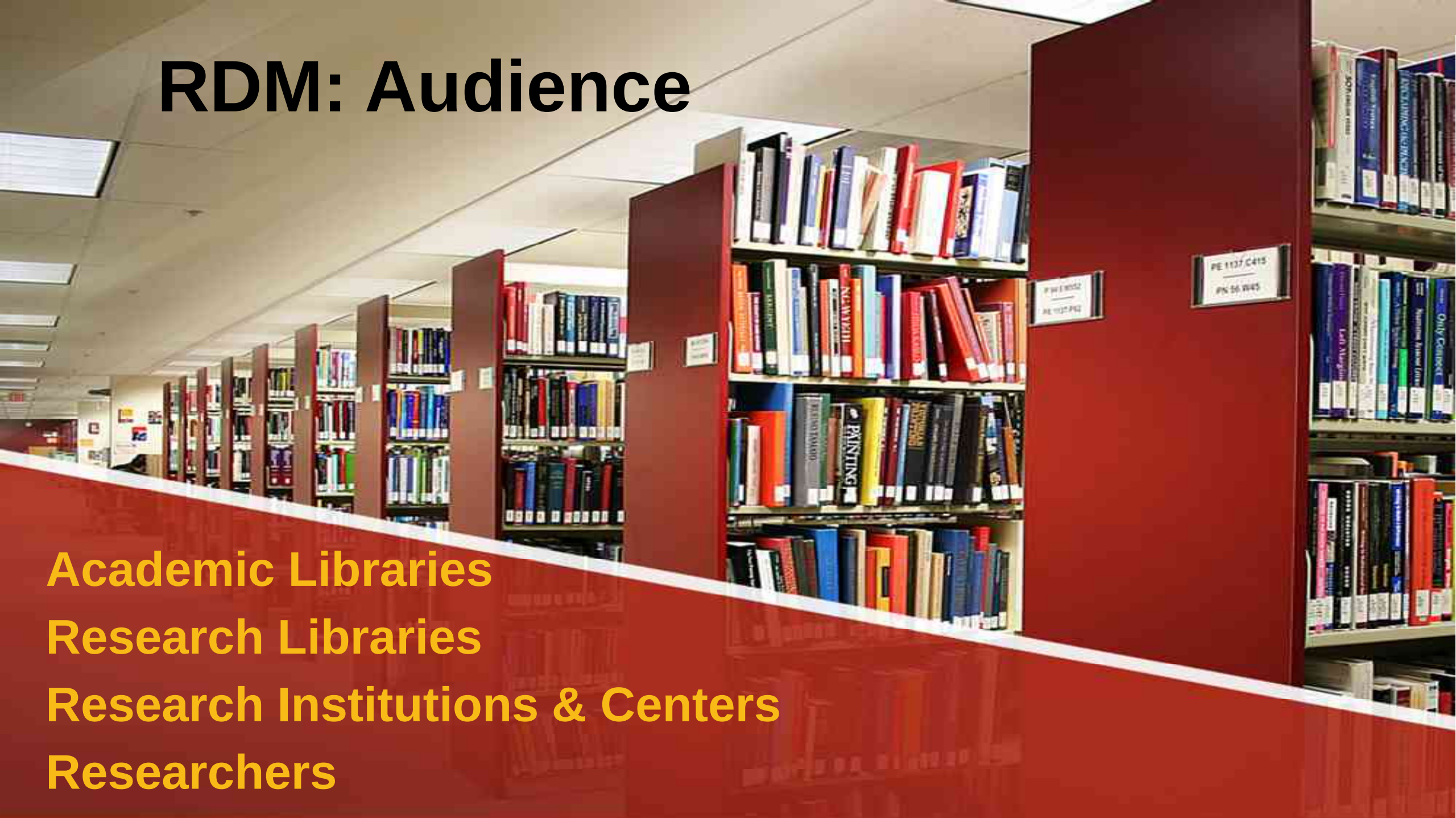
- 1 Why RDM?**
- 2 What is RDM?**
- 3 Who is the audience?**
- 4 Who are the leaders?**
- 5 Where to find best practices?**
- 6 How to set-up RDM services?**
- 7 Conclusion: Role of Library**

# Why do we need RDM?

- Rapid generation of research data
- Massive amount of generated data
- Need to organize, classify, and store data
- Need for easy access of data
- Need to reuse data
- Push for open/public access
- Implementation of data-related policies



# RDM: Audience



Academic Libraries  
Research Libraries  
Research Institutions & Centers  
Researchers



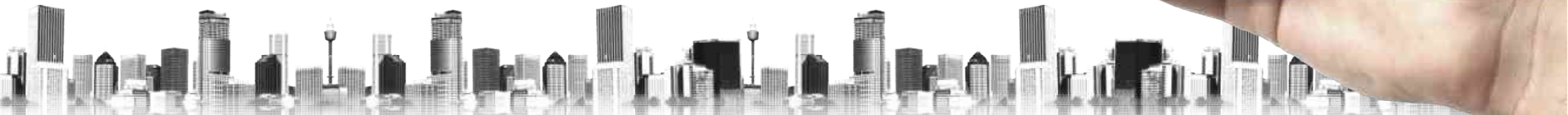
- The storage, access and preservation of data produced from a given investigation.
- Data management practices cover the entire lifecycle of the data, from planning the investigation to conducting it, and from backing up data as it is created and used to long term preservation of data deliverables after the research investigation has concluded.
- Specific activities and issues that fall within the category of data management include: *file naming* (the proper way to name computer files); *data quality control and quality assurance*; *data access*; *data documentation* (including levels of uncertainty); *metadata creation and controlled vocabularies*; *data storage*; *data archiving & preservation*; *data sharing and re-use*; *data integrity*; *data security*; *data privacy*; *data rights*; *notebook protocols* (lab or field).

# RDM: Leading Organizations in Canada

- Government of Canada
- Tri-Agency (CIHR, NSERC, & SSHRC)
- Canadian Association for Research Libraries (CARL)
- Science and Economic Development Canada (ISED)
- Research Data Canada (RDC)
- Leadership Council for Digital Research Infrastructure
- National Digital Stewardship Alliance (NDSA)
- Consortia Standards in Research Administration Information (CASRAI)



**Since 2015: Stewardship role is with CARL Portage Network**



# RDM Global Leaders

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- Australia
- Canada
- Germany
- Ireland
- New Zealand
- The Netherlands
- The United Kingdom
- The United States

# RDM Institutional Leaders

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- **Information Technology**
- **Library**
- **Office of Research Services**

# RDM Services: Best Practices



- **Books and Book Chapters**

- Coravu, R. (2019). *Research data management in academic libraries : Landmarks and uncertainties*. Zenodo. <https://doi.org/10.5281/zenodo.3674679>
- Cox, A. & Verbaan, E. (2018). *Exploring research data management*. Facet. <https://doi.org/10.29085/9781783302802>
- Kruse, F., & Thestrup, J. (Eds.). (2018). *Research data management: A European perspective*. De Gruyter Saur. <https://ebookcentral.proquest.com/lib/socal/detail.action?docID=5157470>

- **Journal Articles**

- Borghi, J., Abrams, S., Lowenberg, D., Simms, S., & Chodacki, J. (2018). Support your data: A research data management guide for researchers. *Research Ideas and Outcomes*, 4, 1-13. <https://doi.org/10.3897/rio.4.e26439>
- Cox, A., Kennan, M., Lyon, L., & Pinfield, S. (2017). Developments in research data management in academic libraries: Towards an understanding of research data service maturity. *Journal of the Association for Information Science and Technology*, 68(9), 2182–2200. <https://doi.org/10.1002/asi.23781>
- Shelly, M., & Jackson, M. (2018). Research data management compliance: Is there a bigger role for university libraries? *Journal of the Australian Library and Information Association*, 67(4), 394–410. <https://doi.org/10.1080/24750158.2018.1536690>

# RDM Services: Best Practices (continued)



- **Internet Sources**

- Canadian Association of Research Libraries. (n.d.). CARL: Research data management.
  - <https://www.carl-abrc.ca/advancing-research/research-data-management/>
- Elsevier. (2019, October 25). *Elsevier launches the research data management librarian academy*. Newstex, <http://libproxy.usc.edu/login?url=https://search-proquest-com.libproxy2.usc.edu/docview/2308643318?accountid=14749>
- Portage. (2020, June). *The Portage network*, <https://portagenetwork.ca/>

# Library to lead the RDM services





# THANK YOU

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